

# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

## OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

## **MEMORANDUM**

Subject: Review of an Acute Inhalation Study with Maquat 12:3

**PC CODE:** 069105/043901/069149

**DP Barcode:** 421317

Reg. No. 10324-209

From:

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Risk Assessment and Science Support Branch (RASSB)

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Thru:

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and

Eric Miederhoff, Team Leader Zebora Johnson, Team Reviewer Regulatory Management Branch Antimicrobials Branch (AD) (7501P)

Applicant: Mason Chemical Co., Arlington Heights, Ill. 60005

## FORMULATION FROM THE LABEL:

PC CODE	ACTIVE INGREDIENT	% BY WT.
069105	Alkyl Dimethyl Benzyl Ammonium Chloride	1.2
043901	Glutaraldhyde	12.5
069149	Didecyl dimethylammonium chloride	1.8

Use: A microbiocide for use in controlling sulfate-reducing bacteria and slime forming bacteria in oil well drilling, oil field processing applications; gas storage fields and equipment such as steam-injection water holding tanks, floodwater industrial recirculating water handling systems.

# **Toxicity Category and study status**

The acute toxicity profile for Registration Number 10324-209 is currently:

Study	MRID Number	<b>Toxicity Category</b>	Study Status
Acute Oral Toxicity	481999-03	III	Acceptable
Acute Dermal Toxicity	481999-04	III	Acceptable
Acute Inhalation Toxicity	494111-01	III	Acceptable
Primary Eye Irritation	481999-05	I.	Acceptable
Primary Skin Irritation	481999-06	III	Acceptable
Dermal Sensitization	481999-07	Non-Sensitizer	Acceptable

a) Signal Word is "DANGER", based upon the classification of the primary eye irritation study.

## b) Precautionary Statements

"Corrosive. Causes irreversible eye damage. Harmful if swallowed or absorbed through the skin. Avoid contact with skin, eyes and clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse. Wear appropriate protective clothing if appropriate."

Eye Irritation: Corrosive. Causes irreversible eye damage. Do not get in eyes. Wear specify appropriate protective eyewear such as goggles, face shield or safety glasses.

## FIRST AID STATEMENTS:

# If in Eyes:

Hold eye open and rinse slowly and gently with water for 15-20 minutes

Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.

Call a poison Control Center or doctor for treatment advice.

#### If swallowed:

Call a poison control center or doctor immediately for treatment advice

Have a person sip a glass of water if able to swallow

Do not induce vomiting unless told so by the Poison Control Center or doctor

Do not give anything to an unconscious person

## If on skin:

Take off contaminated clothing

Rise skin immediately with plenty of water for 15-20 minutes.

Call a poison control center or doctor for treatment advice.

## If Inhalation:

Move person to fresh air

If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably month to mouth if possible.

Call a poison control center or doctor for further treatment advice.

#### **General Information:**

- d) This product meets the Agency requirements for Restricted-Use- Classification based on data that place it in toxicity category I for primary eye irritation In lieu of assigning the product Restricted-Use classification, the Product Manager may consider alternatives such as face shield or goggles (to mitigate the identified hazards).
- e) Based upon data placing it in toxicity category I for primary eye irritation, this product meets the Agency meets the Agency requirements for Child-Resistant Packaging (CRP). However the Agency does not require products that assigned Restricted-Use status to be placed in CRP in addition to Restricted-Use Classification. Please refer to the 40 CFR, 517.22 and 157.24 for CRP requirements and exemptions. Thus, CITT recommends that this product be assigned Restricted-Use classification; if not, this product should at least be packaged in CRP.

The Agency has reviewed the following: Acute Inhalation Toxicity – Rat below. The Data Evaluation Record (DER) for the study is attached.

## **EXECUTIVE SUMMARY:**

## 1. Acute Inhalation Toxicity – Rat; MRID 49411101

Mason Chemical Company sample identified as Maquat 12:3, Lot No.121022 M3 was tested for acute nose only inhalation toxicity in accordance with OPPTS Guidelines. Mason Chemical Company sample identified as Maquat 12:3, Lot No. CM20120313-01, Lot No.121022 M3, a clear liquid, was tested for acute inhalation toxicity at a targeted level of 0.5 mg/L of air by exposing five male and five female rats for a four hour period. The actual gravimetric concentration of the study was 0.63 mg/L of air. A 20% mortality occurred during the 14 day observation period. The inhalation LC<sub>50</sub> was found to be

greater than 0.63 mg/L of air for a 4 hour period.

Maquat would be classified as Category III for inhalation toxicity.

The acute inhalation toxicity study is classified as **Acceptable - Guideline** and satisfies the guideline requirement for an Acute Inhalation Toxicity Study in Rats (OPPTS 870.1300).

**COMPLIANCE**: Signed and dated GLP and Data Confidentiality statements were provided. A Quality Assurance statement was provided.